PATENT COOPERATION TREATY

PCT

INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference	FOR FURTHER ACTION as we	see Form PCT/ISA/220 Il as, where applicable, item 5 below.
JAF/PB60817	AOTION	(Earliest) Priority Date (day/month/year)
International application No.	International filing date (day/month/year)	(Earliest) Priority Date (day/month/year)
PCT/GB2005/001241	30/03/2005	02/04/2004
Applicant		
GLAXO GROUP LIMITED		
This International Search Report has bee according to Article 18. A copy is being tra	n prepared by this International Searching Auansmitted to the International Bureau.	hority and is transmitted to the applicant
This International Search Report consists	of a total of sheets.	
X It is also accompanied by	a copy of each prior art document cited in this	s report.
	international search was carried out on the ba	sis of the international application in the
The international this Authority (Ru		lation of the international application furnished to
b. With regard to any nucle	otide and/or amino acid sequence disclosed	l in the international application, see Box No. I.
2. X Certain claims were fou	nd unsearchable (See Box II).	
3. Unity of invention is lac	king (see Box III).	
4. With regard to the title,		
X the text is approved as su	bmitted by the applicant.	
the text has been establis	shed by this Authority to read as follows:	
5. With regard to the abstract,		
X the text is approved as su	ibmitted by the applicant.	
	shed, according to Rule 38.2(b), by this Author om the date of mailing of this international sea	
6. With regard to the drawings,		
a. the figure of the drawings to be p	oublished with the abstract is Figure No	
as suggested by	the applicant.	
as selected by thi	s Authority, because the applicant failed to su	ggest a figure.
	s Authority, because this figure better charact	erizes the invention.
b none of the figures is to b	e published with the abstract.	

INTERNATIONAL SEARCH REPORT

International Application No PCT/GB2005/001241

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 C07C233/43 C07C231/12 A61K31/167 A61P11/08

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

IPC 7 CO7C A61K A61P

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal, WPI Data, PAJ, CHEM ABS Data

C. DOCUM	ENTS CONSIDERED TO BE RELEVANT	
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Х	WO 2004/011416 A (THERAVANCE, INC; LINSELL, MARTIN, S; JACOBSEN, JOHN, R; KHOSSRAVI, DAV) 5 February 2004 (2004-02-05) cited in the application claim 1	8-21
A .	WO 01/42193 A (ADVANCED MEDICINE, INC; MORAN, EDMUND, J; GRIFFIN, JOHN, H; CHOI, SEOK) 14 June 2001 (2001-06-14) cited in the application page 31, line 3 - line 5 page 43, line 13 page 50, line 11 - line 14 page 50, line 23 - line 25 example 12 claim 13	1,8, 12-18

Further documents are listed in the continuation of box C.	Patent family members are listed in annex.
Special categories of cited documents: A' document defining the general state of the art which is not considered to be of particular relevance E' earlier document but published on or after the international filling date L' document which may throw doubts on priority claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified) O' document referring to an oral disclosure, use, exhibition or other means P' document published prior to the international filling date but later than the priority date claimed	 "T" later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention "X" document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art. "&" document member of the same patent family
Date of the actual completion of the international search 31 May 2005	Date of mailing of the international search report 13/06/2005
Name and mailing address of the ISA European Patent Office, P.B. 5818 Patentlaan 2 NL - 2280 HV Rijswijk Tel. (+31-70) 340-2040, Tx. 31 651 epo nl, Fax: (+31-70) 340-3016	Authorized officer Fitz, W

INTERNATIONAL SEARCH REPORT

International Application No PCT/GB2005/001241

	PC1/GB2005/001241
	<u> </u>
Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
GOULD P L: "SALT SELECTION FOR BASIC DRUGS" INTERNATIONAL JOURNAL OF PHARMACEUTICS, AMSTERDAM, NL, vol. 33, no. 1/3, 1986, pages 201-217, XP002074725 ISSN: 0378-5173 page 201 - page 203	1,8, 12-18
WO 03/042164 A (THERAVANCE, INC; MORAN, EDMUND, J; JACOBSEN, JOHN, R; LEADBETTER, MICH) 22 May 2003 (2003-05-22) page 4, line 10 - page 5, line 19 examples 54,55,60,64	1,8, 12-18
CAIRA M R: "CRYSTALLINE POLYMORPHISM OF ORGANIC COMPOUNDS" TOPICS IN CURRENT CHEMISTRY, SPRINGER, BERLIN, DE, vol. 198, 1998, pages 163-208, XP001156954 ISSN: 0340-1022 page 182 - page 184	1,8, 12-18
WO 2004/106279 A (THERAVANCE, INC; STERGIADES, IOANNA; YOST, EDWARD; HUBBARD, CRISTIN; Z) 9 December 2004 (2004-12-09) cited in the application page 9, line 30 - page 10, line 6 examples 13,14	1-21
	DRUGS" INTERNATIONAL JOURNAL OF PHARMACEUTICS, AMSTERDAM, NL, vol. 33, no. 1/3, 1986, pages 201-217, XP002074725 ISSN: 0378-5173 page 201 - page 203 WO 03/042164 A (THERAVANCE, INC; MORAN, EDMUND, J; JACOBSEN, JOHN, R; LEADBETTER, MICH) 22 May 2003 (2003-05-22) page 4, line 10 - page 5, line 19 examples 54,55,60,64 CAIRA M R: "CRYSTALLINE POLYMORPHISM OF ORGANIC COMPOUNDS" TOPICS IN CURRENT CHEMISTRY, SPRINGER, BERLIN, DE, vol. 198, 1998, pages 163-208, XP001156954 ISSN: 0340-1022 page 182 - page 184 WO 2004/106279 A (THERAVANCE, INC; STERGIADES, IOANNA; YOST, EDWARD; HUBBARD, CRISTIN; Z) 9 December 2004 (2004-12-09) cited in the application page 9, line 30 - page 10, line 6

1

International application No. PCT/GB2005/001241

INTERNATIONAL SEARCH REPORT

Box II Observations where certain claims were found unsearchable (Continuation of Item 2 of IIrst sheet)
This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
1. X Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:
Although claim 14 is directed to a method of treatment of the human/animal body, the search has been carried out and based on the alleged effects of the compound/composition.
2. Claims Nos.: because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Box III Observations where unity of invention is lacking (Continuation of item 3 of first sheet)
This International Searching Authority found multiple inventions in this international application, as follows:
As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:
Remark on Protest The additional search fees were accompanied by the applicant's protest.
No protest accompanied the payment of additional search fees.

INTERNATIONAL SEARCH REPORT

Information on patent family members

International Application No
PCT/GB2005/001241

Patent document cited in search report		Publication date		Patent family member(s)		Publication date
WO 2004011416	Α	05-02-2004	AU	2003259229	A1	16-02-2004
NO 2004011410	,,	03 02 2001	CA	2493128		05-02-2004
			EP	1532104		25-05-2005
			WO.	2004011416		05-02-2004
			US	2005075271		07-04-2005
WO 0142193	Α	14-06-2001	US	6576793	B1	10-06-2003
			ΑT	253039	T	15-11-2003
			ΑU	2254601	Α	18-06-2001
			BR	0015962	Α	30-07-2002
			CA	2391293	A1	14-06-2001
			CN	1402702		12-03-2003
			CZ	20021831		13-11-2002
			DE	60006280		04-12-2003
			DE		T2	29-07-2004
			DK	1235787		08-03-2004
			EA	4263		26-02-2004
			EP	1235787		04-09-2002
			ES	2208453	T3	16-06-2004
			HÜ	0203638		28-02-2003
			JP	2003516381	T	13-05-2003
			MX	PA02005599	Å	18-09-200
			NO	20022655	Â	05-06-200
			PT	1235787	Ť	31-03-2004
			SĪ	1235787	T1	30-04-2004
			SK	9922002		06-11-2002
			TR		T4	21-01-2004
			WO	0142193		14-06-200
			US	2003087307		08-05-2003
WO 03042164 A	Α	22-05-2003	BR	0213795		07-12-2004
			CA	2466962		22-05-2003
			EP	1446379		18-08-2004
			HU		A 2	28-12-2004
			JP	2005509024	T	07-04-2009
			WO	03042160	A 1	22-05-2003
			WO	03042164	A1	22-05-2003
			US	2003153597		14-08-2003
			US	6670376		30-12-2003
			ÜS	2003229058		11-12-2003
			ÜS	2004059116		25-03-2004
			ÜS	2004063755		01-04-2004
		09-12-2004		2004248985	 Δ1	09-12-2004
WO 2004106279				7 4447 40303	~ 1	03-14-400